TITLE "REMOVABLE SECURITY POST ASSEMBLY"

BACKGROUND OF THE INVENTION

1. Field of the invention.

The present invention relates to a post for securing an area, and more particularly, to the type that is removably anchored to the ground.

2. Description of the Related Art.

The closest reference with characteristics similar to the present invention corresponds to U.S. patent No. **5,520,479** issued in **1996** to the same applicant **Rigoberto Hernandez**. The present invention discloses improvements to the previous patent, specifically, in the locking and anchorage assemblies.

SUMMARY OF THE INVENTION

It is one of the main objects of the present invention to provide a security post assembly that is removable, and when removed, does not leave any irregularities on the ground.

It is another objet of this invention to provide a security post assembly that has such an internal locking mechanism that provides no access to a wrongdoer.

It is still another object of this invention to provide a security post assembly that is easy to operate by a user.

It is yet another object of this invention to provide such a device that is inexpensive to manufacture and maintain while retaining its effectiveness.

Further objects of this invention will be brought out in the following part of the specifications, wherein detailed description is for the purpose of fully disclosing the invention without placing limitations thereon.

BRIEF DESCRIPTION OF THE DRAWINGS

With the above and other related objects in view, the invention consists in the details of construction and combination of parts as will be more fully understood from the following

description, when read in conjunction with the accompanying drawings in which:

FIG. 1 is an isometric view of the preferred embodiment.

FIG. 2 is an isometric view of an alternative embodiment.

FIG. 3 is a partial cross-sectional view of the present invention, taken along line 3-3. This figure shows the displacement of the locking mechanism.

FIG. 3A is a partial cross-sectional view of this invention, taken along line 3A-3A.

FIG. 4 is an isometric view of the anchorage assembly of the preferred embodiment.

FIG. 5 is an isometric view of the anchorage assembly of the alternative embodiment.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings in detail and initially to figure 1 thereof, it will be seen that removable security post assembly **10** basically includes elongated post member **20** removably mounted to anchorage assembly **30**, and secured in place by locking assembly **40**.

As illustrated in figures 1, 3 and 3A, elongated post member **20** is tubular and has a rectangular cross section. Post member **20** has upper and lower opened ends **21** and **22**, respectively. Upper opened end **21** cooperatively receives locking assembly **40**, as best seen in figure 3. Post member **20** is maintained vertically by housing member **31** of anchorage assembly **30**, inside which post member **20** penetrates a sufficient distance to be secured to the ground. As shown in figure 3, post member **20** also has lateral openings **23**, **23'**, **24** and **24'** disposed in the lowermost section thereof. Post member **20** also includes pin members **25** and **26** rigidly mounted to the walls thereof. Pin members **25** and **26** are located inside tubular member **20.** Pin member **25** is located in the lowermost portion of post **20** and is designed to hold a predetermined section of latching member **44** in place so that the

latter will pivot about pin **25**. Pin member **26** is located in the uppermost portion of post member **20**. Pin member **26** has eye plate **26'** rigidly and perpendicularly mounted thereto. Eye plate **26'** has, at its distal end, eyelet **26''** that cooperatively receives locking pin **49** of padlock **41** through, as best shown in figures 3 and 3A. Post member **20** also includes handle **27** that is suitable to a user to manipulate the former.

Anchorage assembly **30**, as illustrated in figures 1, 3 and 4, basically includes housing **31**, anchorage members **32**, **32'**, **33** and **33'**, cavities or bay members **34**, **34'**, **35** and **35'**, and cover member **36**. Anchorage assembly **30** is permanently installed below ground level in such manner that only opening **37** of housing **31** and cover member **36** are visible. Anchorage members **32**, **32'**, **33** and **33'** are rigidly mounted to the lateral walls of housing **31** and are designed to provide firm support to anchorage assembly **30**. Cover member **36** is pivotally mounted the upper end of housing **31** so that when post member **20** is removed, member **36** covers opening **37** thereby leaving no irregularities on the ground. When post member **20** is placed inside anchorage assembly **30**, lateral openings **23**, **23'**, **24** and **24'** are in horizontal alignment with bay members **34**, **34'**, **35** and **35'**, respectively. Cavities or bay members **34**, **34'**, **35** and **35'**, in the

preferred embodiment, are outwardly and perpendicularly projected with respect to housing **31.** Anchorage assembly **30** also includes drainage passage **38** located in the bottom of housing **31**. In this manner, the water trapped inside housing **31** flows away through drainage passage **38**.

Locking assembly **40**, in the preferred embodiment, includes padlock assembly **41** rigidly mounted to tubular housing **42** that in turn is mounted to upper opened end **21** of post member **20**. As best seen in figure 3, extended cable **43** is mounted, at one end, to tubular housing **42** by fastening member **43'** and latching member **44** is attached to the other end. Cable **43**, in the preferred embodiment, is made out of metallic material and is tension-resistant. Cable **43** has cover **43''** to protect the former. Latching member **44** has eyelet **44'** through which one end of cable **43** is attached. Eyelet **44'** is located at the right and uppermost portion of latching member **44** and latching notch **45** is located at the left and lowermost portion thereof. Latching member **44** also includes eyelet **44''** disposed adjacent to eyelet **44''.** Eyelet **44''** cooperatively receives pin **25** of post member **20**. Padlock assembly **41** is manufactured by American Lock Company *The Locksmith's Lock* ® located at 3400 W Exchange Road Crete IL 60417 USA. Tubular housing **42** includes lateral slots **46** and **46'**,

and upper slot **47**. Slots **46** and **46'** are located in two opposite lateral walls of housing **42** and receive pin member **26** through. Slots **46** and **46'** limit the vertical displacement of housing **42** inside post member **20**. Slot **47** is located in top wall **48** of housing **42** and is designed to receive eye plate **26'** through.

Once a user anchors removable post member **20** in the ground, it is locked by locking assembly **40**. A user brings padlock assembly **41** towards post member **20**, housing **42** and cable **43** descend until edge **48'** stops against upper end **21**. Then, padlock assembly **41** is actuated with key **K** and locking pin **49** is inserted in eyelet **26''** and secured in placed. Cable **43** moves down and latching member **44** pivots about fixed pin **25**. Cable **43** descends sufficiently to allow latching notch **45** be inserted through lateral openings **23**, **23'**, **24** and **24'** in any of bay members **34**, **34'**, **35** or **35'**. In this manner, post member **20** is firmly secured to anchorage assembly **30**.

Once a user desires to remove post member **20** from the ground, he/she unlocks padlock assembly **41** aided by key **K** and locking pin **49** is removed from eyelet **26''**, as best seen in figure 3. The user helped by handle **50**, lifts padlock assembly **41** along with housing **42** until fixed pin **26** stops against the lower end of

lateral slots **46** and **46'**, as seen in figure 3A. When cable **43** is pulled up, latching member **44** pivots about fixed pin **25** and latching notch **45** is removed from any of bay members **34**, **34'**, **35** or **35'**, as best shown in figure 3.

Figures 2 and 5 illustrate alternative embodiment **110** that is similar to embodiment **10**. Removable security assembly **110** includes post member **120** removably mounted to anchorage assembly **130** and secured in place by locking assembly **140**. Both post member **120** and anchorage assembly **130** have circular cross section. Anchorage assembly **130** basically includes housing **131**, anchorage members **132**, **132'**, **133** and **133'**, bay **134** and cover member **136**. Bay or cavity **134** is disposed around the circular lateral wall of housing **131**.

The installation of anchorage assemblies **30** and **130** is accomplishes by pouring concrete around anchorage members **32**, **32'**, **33**, **33'** and **132**, **132'**, **133**, **133'**, respectively.

The foregoing description conveys the best understanding of the objectives and advantages of the present invention. Different embodiments may be made of the inventive concept of this

invention. It is to be understood that all matter disclosed herein is to be interpreted merely as illustrative, and not in limiting sense.